Hemerologium Hermeticum:

OR A MERCURIAL CALENDER OF THE

Diurnall motions and Configurations of all the PLANETS for the Year, 1654.

Being since the Correction of the *Roman* Calendar by P. *Gregory* 72. years, And the second after Bissextile or Leap year.

CONTAINING

Astronomicall Calculations of Eclipses, Revolutions, probable Conjectures upon the Weather, with other things usefull.

Calculated properly for the elevation of the Pole-artick 52. Degrees, yet may be indifferently referred to Great *Britain* and *Ireland*.

By *John Smith* Astrophilist.

Cœlum creavit Deus in circulum glorioſum;
Manus Altiſſimi extenderunt illud

London, Printed by *E. Cotes*, for the Company of STATIONERS 1654.

The Julian Accompt.	Vulgar Notes.	The Gregorian Account
1	Golden Number	2
11	Circle of the Sunne	11
A	Dominicall Letter	D
7	Roman Indiction	7
22	The Epact	12
1	Septuagesima	
March 26	Easter day	April 5
May 14	Whitsunday	May 24.
Decemb. 3	Advent Sunday	Novemb. 29

The Termes of the Law.

Hillary Term begins *January* 23. and endeth *February*, 12. it hath these 4. Returnes,

1. Octab. Hilar. } 3. Craft. Purif.
2. Quind. Hilar. } 4. Octab. Purif.

Easter Term begins *April* 12. and it ends *May* 8. having 5. Returnes,

1. Quind. Pasch. } 4. Quinq. Pasch.
2. Tres Pasch. } 5. Craft. Ascens.
3. Mens Pasch. }

Trinity Terme begins *May* 26. and it ends *June* 14. having 4. Returnes,

1 Craft. Trin. } 3. Quind. Trin.
2. Octab. Trin. } 4. Tres Trin.

Michaelmas Term begins *October*, 23. ends *November*, 28. and hath 6. Returnes,

1. Tres Mich. } 4. Craft. Mart.
2. Mens Mich. } 5. Octab. Mart.
3. Craft. Mich. } 6. Quind. Mart.

The parts of mans body as they are governed by the Signs Zodiacall.

♈ The head and face.

♉ Neck and throat.

♋ Breast, stomach & ribs.

♍ Bowels and Belly.

♏ Secrets and members.

♑ Knees.

♊ Armes and shoulders.

♌ Heart and back.

♎ Reins and loyns

♐ Thighs.

♒ Legs.

♓ Pisces the feet.

MAjestick *Aries* in his golden wooll,
Commands the head and face: the angry Bull
Rules neck and throat: the armes and shoulders lie
Subjected to the Zodiacks *Gemini*.
The breast and stomach do the Crab obey,
And royall *Leo* o're the heart doth sway
His regall scepter; whilest the wanton maid,
Bowels and belly rules. Reins, loyns are waigh'd
By the coelestiall *Libra*. Secrets are
The poysonous *Scorpion's*: and the thighs the share
Of *Sagitarius*: and the feeble knees,
Fall to the Goat: the Legs are standing fees
Unto *Aquarius*: whilest the feet do bend
Their gentle steps to *Pisces*: in the End.
Thus with the Bull, the Lion, and the Dart,
Man's round beset all quarters, head and heart.

The Characters of the Planets and Nodes.

♄ φαίνων, *Saturne.*	♀ φωσφόρος, *Venus.*
♃ φαέθων, *Jupiter.*	☿ στίλβων, *Mercury.*
♂ πυρόεις, *Mars.*	☾ σελήνη, *Luna* the Moon.
☉ ἥλιος, *Sol* the Sun.	

Saturni, Jovis & Martis Soliqi sub illis,
Mercurius Venerem interagit Lunamqi locatus.

☊ *Dragons Head.*
☋ *Dragons Tail.*

The Aspects old and new.

☌	*Conjunction*	0	0	*Novilunium*, or the New
⚺	*Semisextile*	1	0	Moon.
⚹	*Sextile*	2	0	*Cornitulata*, or the Horned Moon.
⚵	*Quintile*	2	12	
□	*Quartile*	3	0	*Semiplena*, Moon half
⚼	*Tridecile*	3	18	full of light.
△	*Trine*	4	0	*Gibbosa*, or the Moon
⚻	*Biquintile*	4	24	three parts light.
☍	*Opposition*	6	0	*Plenilunium*, Full Moon.

Chiaro.	Names of the Aspects.	Distances in Signes & Deg	The severall formes or shapes of the Moon according to her distance from the Sunne.

January hath xxxj. dayes.

I am no bi-fac'd *Janus*, have no eyes
To view things past, and foresee Mysteries
To come. Nor have I a seditious pate
To plot destruction to the Church or State:
Yet this I dare prognosticate, and shall,
Good honest hearts will happifie us all.

1	♃	☾ ew pr. ♄.	♏	8	23	Cold and rai-	
2	♄	☽ Apogeon		14	24	ny weather.	
3	♂	♄ 25. 23 ♌		25	25		
4	♄	☌ ☉ & ☿	♐	7	26	Cold and fro-	
5	♀	☿ orientall		19	27	sty windes.	
6	♂	Epiphany	♑	2	28	Slabb, wet wea	
7	♀	♃ 22. 17 ♒		14	29	ther again,	
8	♃	1. sund. aft. Ep.		27	[illegible]	Windes and	New Moon 8.
9	♄	✶ ♂ & ☿	♒	10	1	snow.	day 39. minutes
10	♂	☽ with ☊		23	2	Windy & cold	past 9. after
11	♄	✶ ♀ & ☿	♓	7	3	cloudy snowy	noon.
12	♀	☌ ♂ & ☽		20	4	aire.	
13	♂	Hillarie	♈	4	5	Thick clouds	
14	♀	♂ 25. 38 ♓		18	6	and very dark	
15	♃	2. sund. aft. Ep.	♉	2	7	aire.	First quart the
16	♄	☍ ♄ & ♃		16	8	Storms of hail	15. day 4. min.
17	♂	☽ perigri.	♊	1	9	snow, & cold,	past 7. at night.
18	♄	□ ♀ & ☽		15	10	very impetu-	
19	♀	♀ 25. 55 ♓		29	11	ous windy, and	
20	♂	☍ ☿ & ☽	♋	13	12	wet now.	
21	♀	△ ♂ & ☽		27	13		
22	♃	3. sund. aft. Ep.	♌	11	[illegible]	Winter wea-	Full Moon 22.
23	♄	[illegible]		25	15	ther.	day 36. min.
24	♂	☿ 19. 32 ♑	♍	8	16	Cold and win-	past 3. after-
25	♄	△ ☿ & ☽		21	17	dy still.	noon.
26	♀	☍ ♀ & ☽	♎	3	18	Rain & then	
27	♂	□ ☿ & ☽		15	19	some remissi-	Last quarter
28	♀	△ ♃ & ☽		28	20	on of cold, yet	30. day 44.
29	♃	☌ ♂ & ♀	♏	9	21	cloudy & wet.	past 11. before
30	♄	□ ♄ & ☽		21	22		noon.
31	♂	☽ Apogeon	♐	3	23		

February hath xxviij. dayes.

India beholds the Sun obscured, we
In *England* shall the Moon eclipsed see.
Phœbus and *Phaeton*, *Jove*, *Hermes* joyne;
Chronos, *Mars*, *Venus* are in friendly *Trine*.
This Protean mixture of the Starres together
Will cause a daily Protean change of weather.

M.D.	W.D.	Festivals, Asp. and Motions.	Moons place.	Age	Aspects and weather.	Lunations.
1	d	♄ 23. 14 ♌	♐ 15	24	☍ ♄ & ☉	
2	e	Purif. Ma.	27	25	Snow and ve-	
3	f	♃ 28. 40 ♒	♑ 10	26	ry cold wea-	
4	g	♀ in max. el.	22	27	ther, many da-	
5	a	Esto mihi	5	28	Cloudy, ye-	
6	b	☉ Eclips. inv.	♒ 19	29	warmer now.	
7	c	Shrove tuesd.	♓ 2	0	Vehement sto-	New Moon 7.
8	d	☉ enters ♓	16	2	of winde we-	day 20. minut.
9	e	♂ ☉ & ♃	♈ 1	3	and cold.	past 6. in the
10	f	♂ 15. 35 ♈	14	4		morning.
11	g	Cerin ends	29	5	Now not so	
12	a	♀ 20. 32 ♈	♉ 13	6	windy but △	
13	b	☽ perigeon	27	7	♄ & ♀ cold	
14	c	Valentine	♊ 1	8	rain if not	First quarter
15	d	△ ♃ & ☽	25	9	snow & clou-	14. day 40 in
16	e	♀ 17. 33 ♒	♋ 5	10	dy; cold winds	past 2. in the
17	f	☍ ♄ & ☿	23	11	& frosty wea-	morning
18	g	△ ♄ & ♂	♌ 6	12	ther, hail & wi.	
19	a	2. sund. in L.	18	13	✶ ♂ & ☿	
20	b	♄ 21. 44 ♌	♍ 3	14	Snow & much	
21	c	♃ 2. 59 ♓	16	15	cold dark and	Full Moon 21.
22	d	♂ 24 18 ♈	29	16	cloudy, frosty	day 30. minut.
23	e	♀ enters ♉	♎ 11	17	still.	past 6. in the
24	f	Matthias	23	18	✶ ♄ & ☿ Wet	morning.
25	g	△ ♃ & ☽	♏ 5	19	and snow like.	
26	a	3. sund. in Lent	17	20	☌ ♃ & ☿ Wi.	
27	b	☿ 5. 11 ♓	29	21	are now very	
28	c	△ ♄ & ☽	♐ 11	22	blustring.	

March hath xxxj. dayes.

A friendly season this, the heavens smile
At the beginning; but lo, ere a while
A cloudy season, and we may discover
Some windy showres over our heads to hover.
Some say when *Jove* and *Venus* rule the State,
As now they doe, we may be fortunate.

1	d	✶ ♃ & ♀	♐	23	23	Stern, & calm	Last quarter 1.
2	e	♄ 21. 3 ♌	♑	5	24	aire all the	day 21. min.
3	f	✶ ☉ & ☽		17	25	first part of	past 8. in the
4	g	□ ♂ & ☽	♒	0	26	this moneth.	morning.
5	a	4. sund. in Lent		13	27		
6	b	☽ with ♃		26	28	Windy, yet	
7	c	♃ 6. 17 ♓	♓	10	29	calm still and	
8	d	☽ with ☿		24	●	serene weath	New Moon 8.
9	e	♂ 5. 3 ♉	♈	9	1	but after this	day 18. min.
10	f	☉ enters ♈		24	2	followes ma-	past 6. at night
11	g	♀ 10. 46 ♉	♉	9	3	ny great co-	
12	a	5. sund. in Lent		24	4	ruscations, and	
13	b	✶ ♃ & ♂	♊	8	5	then its very	
14	c	☾ perigeon		22	6	windy yet very	
15	d	☌ ☉ & ☿	♋	6	7	dry.	First quarter
16	e	☿ 7. 14 ♈		20	8		15. day 17. min
17	f	□ ♂ & ♀	♌	3	9	Now rain and	past 2. in the
18	g	☽ with ♄		16	10	cloudy wet we.	morning.
19	a	[illegible]		29	11	*Quod non vis*	
20	b	♄ 20. 8 ♌	♍	12	12	*tibi ne facias*	
21	c	♃ 9. 30 ♓		25	13	*alteri.*	
22	d	☌ ♂ & ♀	♎	7	14	△ ♄ & ♀	Full Moon 22.
23	e	♂ 14. 55 ♉		20	15	Now dry and	day 1. minute
24	f	△ ♃ & ☽	♏	2	16	windy stormes	past 10. at night
25	g	[illegible]		14	17	of blustr. yet	
26	a	Easter day.	♐	26	18	fair though	
27	b	☽ apogeon.		8	19	not very clear	
28	c	♀ 14. 13 ♉	♑	19	20	above head.	Last quarter
29	d	△ ☿ & ☽		1	21	△ ☉ & ♄	31 day 46. mi
30	e	△ ♄ & ♂		13	22	cold clouds.	past 1. in the
31	f	☿ 6. 46 ♉		26	23		morning.

Aprill hath xxx. dayes.

Windes warmth and wet, this, this is *Aprill* weather,
Compos'd of rain and sun-shine together;
'Twill blesse the season with a fair increase
Of hopefull times, but where is truth and peace?
What? is *Astrea*, is *Fidelia* fled?
They 're here, but dare not, cannot speak they 're dead.

1	♐	♄ 19. 49 ♌	♒	8	24	Gentle & plea-			
2		Low sunday		21	25	sant aire.			
3	♑	☌ ☿ & ♃	♓	5	26	Winds, wet &			
4	♒	✶ ♅ & ♇		18	27	warme wea-			
5	♑	✶ ♆ & ♑	♈	3	28	ther.			
6	♐	♆ 12. 54 ♓		17	29	For the most			
7	♐	☽ with ☉	♉	2	●	part windy &	New Moon 7.		
8	♐	☽ perigeon		17	2	wet, yet warm	dayes 48. min.		
9	♑	2. sund. aft. Ea.	♊	3	3	dry and fair.	past 3. in the		
10	♑	□ ♄ & ♑		18	4		morning.		
11	♒	☌ 28. 6 ♉	♋	2	5				
12	♑	Term begins		16	6				
13	♐	□ ♀ & ♗	♌	1	7	Cloudy and	First quarter		
14	♐	☿ 7. 39 ♉		13	8	dark aire.	13. day 29. mi.		
15	♑	☽ with ♄		27	9	Windy and ☌	past 6. at night.		
16	♑	3. sun. aft. East.	♍	9	10	☉ & ♀ dry			
17	♑	△ ♃ & ♗		22	11	weather, yet			
18	♐	♄ 19. 47 ♌	♎	4	12	dark and clou-			
19	♑	✶ ♄ & ♗		16	13	dy.			
20	♐	♆ 15. 39 ♓		28	14	A very good			
21	♐	△ ♆ & ♗	♏	10	15	spring time,	Full Moon 21.		
22	♐	☽ apogeon		22	16	*Suum cuique*	day 51. minut.		
23	♑	4. sund. aft. Ea.	♐	4	17	*pulchrum*, the	past 1. afterno.		
24	♑	☌ 6. 58 ♊		16	18	season likes the			
25	♑	Mar: Evan:		24	19	farmer.			
26	♑	☿ 0. 45 ♉	♑	10	20				
27	♐	✶ ☉ & ♆		22	21	Winds wet &			
28	♐	☿ 23. 26 ♉	♒	4	22	cold □ ♄ & ☉	Last quarter		
29	♐	□ ♀ & ♗		17	23	it this time.	the 29. day 4.		
30	♐	Rogation sun.		30	2		min. past 4. in		
							the afternoon.		

May hath xxxj. dayes.

If Starres have influence on State affairs,
As ſome affirm, then in this moneth the tares
Of diſcord twixt the Souldier and the Scholer,
(Milde *Jove* in ſquare to *Mars*, he in his choler)
Perhaps denotes mutations in the Law,
In ordine ad ſpiritualia ——— ———

1	b	Phil. & Iac	♓	13	24	Dry and hot		
2	c	☌ ☉ & ♆		27	26	windes.		
3	d	⚹ ☌ & ☽	♈	11	27	□ ♄ & ♀		
4	e	Aſcenſion d		26	28	dry and very		
5	f	☽ perigeon	♉	11	29	hot weather.		
6	g	♄ 10. 18 ♌		26	●	Winds & moi-		New Moon
7	a	⚹ ♃ & ♀	♊	11	2	ſture yet war.		6. day 20. min.
8	b	Term ends		26	3			paſt 11. at no.
9	c	♄ 18. 52 ♓	♋	11	4	Windy & dry		
10	d	□ ♀ & ☽		26	5	freſh & whol-		
11	e	☽ with ♄	♌	10	6	ſome thunder,		
12	f	□ ♃ & ☌		23	7	and great co		
13	g	☌ 19. 36 ♊	♍	6	8	ruſcations.		First quarter
14	a	Rogation day		19	9			13. day 38. mi.
15	b	⚹ ♄ & ☌	♎	1	10	rain and dark		paſt 4. in the
16	c	△ ☌ & ☽		13	11	clouds.		morning.
17	d	♀ enters ♉		25	12	Moiſture,		
18	e	☌ ♀ & ☽	♏	7	13	a warme, ſe-		
19	f	☽ apogeon		19	14	rene and ve-		
2	g	♀ 17. 39 ♉	♐	1	15	ry calm ſea-		
21	a	Whitſunday		13	●	ſon at this		Ful Moon 21.
22	b	☌ ☌ & ☽		25	17	time.		lay. 20. min.
23	c	♄ 21. 17 ♌	♑	7	18	Moiſture win-		paſt 5. in the
24	d	△ ♀ & ♃		19	19	dy and fair		morning.
25	e	♆ 21. 1 ♓	♒	1	20	weather ⚹ ♆		
26	f	Term begin		14	21	& ♀		
27	g	☍ 29. 3 ♊		26	22	□ ♄ & ♀		
28	a	1. ſund. aft. Tr.	♓	9	23	dry weather,		Laſt quarter
29	b	♀ 5. 54 ♉		22	24	and windy &		29. day 51. m.
30	c	□ ☌ & ☽	♈	6	25	pleaſant wea-		paſt 2. in the
31	d	♀ 26. 18 ♉		20	26	ther.		morning.

June hath xxx. dayes.

A pleasant time, the fields do bravely flourish:
Warm rain and sun-shine will their beauty cherish.
Something's in action that pretends our good,
We wish it may be felt, heard, understood,
Good consultations if not prosecuted,
Are by their own deficiency confuted.

1	♉	△ ☉ & ♆	♉ 4	27	Winde and
2	♉	✶ ☉ & ♄	19	28	rain, wet and
3	♊	☽ perigeon	♊ 4	29	windy, and
4	♊	2. sund. aft. T.	19	30	then for the
5	♊	♄ 22. 18 ☊	♋ 4	●	most part a
6	♊	△ ♆ & ☽	20	2	very fair and
7	♊	✶ ♃ & ♀	☊ 4	3	warm, serene
8	♋	♆ 22. 21 ♓	18	4	and whole-
9	♋	✶ ♂ & ☽	♍ 2	5	some, kinde
10	♋	♌ ♆ & ☽	15	6	and good sea-
11	♋	3. sund. aft. Tr.	28	7	son.
12	♋	♂ 9. 35 ♋	♎ 10	8	
13	♋	✶ ♄ and ☽	22	9	
14	♌	♀ 17. 53 ♉	♏ 4	10	Cloudy and
15	♋	♌ ♀ and ☽	16	11	moist.
16	♌	☽ apogeon	28	12	Very windy
17	♌	□ ♆ & ♃	♐ 10	13	✶ ♄ and ♃
18	♌	4 sun. aft. Tri.	22	14	and some rain
19	♌	♀ 27 17 ♊	♑ 4	●	then very fair
20	♌	✶ ♅ and ♀	16	16	and again
21	♌	□ ♄ and ☉	28	17	cloudy wea-
22	♌	♄ 23. 54 ☊	♒ 10	18	ther: but (or
23	♌	♆ 23. 10 ♓	23	19	else I am very
24	♌	John Baptist	♓ 6	21	much mista-
25	♌	5 sun. aft. Tri.	19	23	ken) the
26	♌	♂ 18. 40 ♋	♈ 2	22	month ends
27	♌	□ ♂ and ☽	16	23	with much
28	♌	♃ ☉ and ♀	29	24	sun and some
29	♌	Peter & Paul	♉ 15	25	winde.
30	♌	♂ ♂ and ♀	29	26	

New Moon 4. day 13. minut. past 6. after noon.

First quarter 11. day 56. mi. past 4. after noon.

Full Moon 19 day 6 minutes after 8. at night.

Last quarter 27. day 58. m. past 10 before noon.

July hath xxxj. dayes.

The Moneth begins not well, the boistrous windes
Bring showres of rain, and grieve the sordid mindes
Of countrey Peasants, now observe they may
The Proverb, and when *Phebus* smiles, make Hay:
When heaven frowns the earth hath too much rain,
But when he smiles on us it's fair again.

1	♃	☽ perigeon	♊	13	27	△ ♀ and ♅			
2	♄	6. sund. aft. Tr.			28	28	High windes,		
3	♑	△ ♀ and ♂	♋	13	29	great showres			
4	♐	♄ 25. 14 ☊			28	0	and thunder,	New Moon	
5	♑	△ ☉ and ♀	☊	12		2	with warme	4. day 33. min.	
6	♐	☌ ☽ and ♑			26	3	and whole-	past 1. in the	
7	♈	♀ 23. 17 ♓	♍	10		4	some showres.	morning.	
8	♏	♇ ♀ and ☽			23	5	Still much		
9	♄	7. sund aft. Tr.	♎		6	6	rain for many		
10	♑	☌ ☉ and ☌			19	7	daies.		
11	♐	♂ 28. 21 ♋	♍	1		8		First quarter	
12	♑	✱ ☿ and ♅			13	9	*Sed post nubi-*	11. day 26. m.	
13	♐	□ ♄ and ☽			25	10	*la serenitas.*	past 7. in the	
14	♏	☽ apogeon	♐		6	11		morning.	
15	♐	☿ 18. 0 ♊			18	12	For now a-		
16	♄	8. sund. aft. Tr.	♑	1		13	gain the aire		
17	♑	☿ 23. 15 ☊			12	14	is very clear,		
18	♌	♇ ☌ and ☽			25	●	and ☌ ☿ and		
19	♐	Dog da. beg	♒	7		16	☿ the wea-	Full Moon 19	
20	♐	☐ ♀ and ♋			20	17	ther calm gen-	day 22. min.	
21	♏	♄ 27. 14 ☊	♓	3		18	tle and fair,	past 10. before	
22	♐	♋ ☽ and ♀			16	19	and so conti-	noon.	
23	♄	9. sund. aft. Tr.			29	20	nues till rain,		
24	♑	✱ ♄ and ☿	♈	13		21	as now it doth		
25	♐	Sam. ♄ post.			26	22	bedewes the		
26	♑	♀ 22. 25 ♓	♉	10		23	earth.		
27	♐	♂ 8. 38 ☊			24	24			
28	♏	☽ perigeon	♊	9		25	Fair and good	Last quarter	
29	♄	☿ 3. 9 ♋			23	26	weather ends	26. day 46. m.	
30	♄	☉ in. aft. Tri.	♋	8		27	this moneth.	past 4. in the	
31	♑	♈ 13. 25 ♍			22	28		afternoon.	

August hath xxxj dayes.

Rome look about thee, *Phœbus* hides his face.
Bright *Sol's* eclips'd, worse will be thy case:
The Sign is *Leo*, now thy Buls must down,
Thou'lt be devested of thy triple Crown,
Ere the portents of this eclipse be past,
Thy long expected downfall now doth hast.

1	c	Lammas day	♌	6	29	The moneth	
2	d	☉ eclipsed		21	30	begins with	New Moon
3	e	♄ 28. 51 ♌	♍	4	●	fair and good	2. day 8. min.
4	f	☽ with ☿		18	2	harvest wea-	past 10, before
5	g	♃ 21. 34 ♓	♎	1	3	ther.	noon.
6	a	11. su. aft. Tri.		14	4	Clear air, ve-	
7	b	☍ ♃ and ☿		27	5	ry high winds	
8	c	△ ♀ and ☽	♏	9	6	and impetu-	
9	d	△ ♃ and ☽		21	7	ous furious	First quarter
10	e	☽ apogeon	♐	3	8	blasts with	9. day 43. min.
11	f	♂ 18. 13 ♌		14	9	raine.	past 1. in the
12	g	☌ ☉ and ♄		26	10	Cold showres	morning.
13	a	12. sun. aft. Tr.	♑	8	11	and then good	
14	b	△ ♃ and ☿		20	12	fair and sun-	
15	c	♀ 22. 21 ♋	♒	3	13	shiny serene	
16	d	☍ ♄ and ☽		16	14	and gallant	
17	e	☉ eclipsed		29	●	weather.	Full Moon
18	f	☿ 29. 44 ♍	♓	11	6		17. day 49. m.
19	g	△ ♀ and ☽		25	7	*Scribimus in-*	past 10. at
20	a	13. sun. aft. Tr.	♈	9	18	*docti doctique*	night.
21	b	△ ♂ and ☽		23	19	Showres but	
22	c	✶ ♀ and	♉	7	20	very gentle	
23	d	♄ 1. 23 ♍		21	21	and calme.	Last quarter
24	e	♃ [illegible]	♊	5	22	☽ perigeon.	24. day 7. m.
25	f	☿ [illegible]		19	23	Fair & warm	past 10. at
26	g	♃ 19. 4. ♓	♋	4	24	seasonable,	night.
27	a	13. su. aft. Tri.		18	25	temperate an	
28	b	☽ with ☿	♌	1	26	welcome wea-	New Moon
29	c	♂ enters ♍		16	27	ther ends *Au-*	31. day 23. m.
30	d	♀ 9. 30 ♌		29	28	*gust.*	past 9. at nig.
31	e	☿ 26. 3 ♍	♍	13	●		

September hath xxx. dayes.

This Moneths third day the *Scot* hath thrice been beat;
Once was he prisoner, twice he did retreat:
The day is memorable now, and shall
Be ever famous for that Nations fall.
Would *England* not betray her self by sinne,
Heaven would protect her still without, within.

1	f	☌ ☿ and ☉	♍	26	1	Violent and great showres of ♄ and ♂ of rain and high windes.
2	g	♄ 2. 38 ♎		9	2	
3	a	Cromwels vic.	♎	22	3	
4	b	☌ ☉ and ☿		5	4	
5	c	□ ☿ and ☽	♏	17	5	
6	d	□ ♄ and ☽		29	6	Cloudy and dark aire, turbulent, boistrous windy weather.
7	e	☽ apogeon	♐	11	7	
8	f	Natal. Mariæ.		22	8	
9	g	☌ ♀ and ☿	♑	4	9	
10	a	16. su. aft. Trin		16	10	
11	b	♀ 17. o ♓		28	11	
12	c	☌ 8. 32 ♏	♒	11	12	Fair and calm, serene and gentle.
13	d	☌ ☿ and ☾		24	13	
14	e	☽ with ♀	♓	7	14	
15	f	☿ enters ♏		20	15	
16	g	☌ ♀ and ♂	♈	4	●	Gusts of high windes.
17	a	17. sun. aft. Tr.		18	17	
18	b	△ ♄ and ☽	♉	3	18	Cloudy and much cold rain, ☽ perigeon. windes and clouds with thunder, rain and great coruscations.
19	c	☿ 18. 38 ♏		17	19	
20	d	☌ ♄ and ☿	♊	2	20	
21	e	✠ Matthew ♐		16	21	
22	f	✳ ♄ and ☽	♋	1	22	
23	g	☌ ♀ and ♂		14	23	
24	a	18. sun. aft. Tr.		28	24	
25	b	☽ ☍ ☉ 10. ♏	♌	12	25	
26	c	♀ ☍ ☉ 15 ♓		25	26	
27	d	☌ 18. 1 ♏	♍	9	27	Fair & wholesome warm air ends the month.
28	e	☌ ♀ and ☿		22	28	
29	f	✠ Michaelm. ♎	♎	5	29	
30	g	☿ ☌ ♄ 48 ♎		18	●	

First quarter 8. day 46. min. past 6. at night.

Full Moon 16. day 27. m. past 6. at noon.

Last quarter 23 day 18. m. past 4. in the morning.

New Moon 30. day. 7. m. past 12. before noon.

October hath xxxj dayes.

Mars and the lovely *Venus* now do joyne
Their mutuall forces in an earthly ſign,
Remitting cold, making the ſeaſon warm,
If they portend a ſhowre, they mean no harm.
The Starres would do to us no hurt, if we
Would ſtrive to be as harmleſſe as they be.

1	♃	19. ſun. aſt. Tr.	♍	1	1	A very warm	
2	b	♄ 6. 5 ♍		13	2	ſeaſonable air	
3	c	☽ apogeon.		25	3	temperate and	
4	d	✶ ☿ and ☽	♐	7	4	milde rain	
5	e	☌ ♂ and ♀		19	5	Apert. port.	
6	f	♆ 14. 24 ♓	♑	1	6	Cloudy and	
7	g	✶ ♆ and ☽		13	7	then fair, ſome	
8	A	20. ſu. aſt. Tri.		24	8	gentle gales	First quarter
9	b	☌ 25. 36 ♍	♒	6	9	of winde and	8 day 54. m.
10	c	△ ☿ and ☽		19	10	ſmall ſhowres	paſt 1. after
11	d	♀ enters ♎	♓	2	11	of harmleſſe	noon.
12	e	☽ with ♆		15	12	warm rain.	
13	f	☍ ♂ and ☽		28	13		
14	g	☿ 27. 40 ♎	♈	12	14	Fair and	
15	A	21. ſun. aſt. Tr.		27	●	clear air, tem-	Full Moon
16	b	☿ enters ♏	♉	12	16	perate wea-	15. day 18. m.
17	c	△ ☍ and ☽		27	17	ther.	paſt 9 at night.
18	d	Luke Evan.	♊	11	18	☽ perigeon	
19	e	☌ ☉ and ☿		26	19	very windy	
20	f	✶ ♄ and ☿	♋	11	20	and ſudden	
21	g	✶ ☉ and ♄		25	21	how es great	
22	A	21 ſu. aſt. Tri.	♌	9	22	ſtore, with	Laſt quarter
23	b	Ecum. Reg.		22	23	cold air.	22. day 34. m.
24	c	△ ♄ and ☿	♍	6	24	Calmer.	paſt high
25	d	♄ 8. 11 ♍		19	25	Very windy,	noon.
26	e	△ ☉ and ♆	♎	1	26	ſcarce dry.	
27	f	♆ 13. 30 ♓		14	27	The latter end	
28	g	Sim. & Jude		27	28	of the moneth	New Moon
29	A	22. ſu. aſt. Tri.	♏	9	29	the weather i	30 day 38. m.
30	b	☌ 8. 53 ♎		21	☽	milde if not	paſt 3. in the
31	c	♀ 25. 30 ♎	♐	3	1	very fair,	morning.

November hath xxx. dayes.

Write, said *Jehovah* to the Prophet, write,
This day did *Babels* King 'gainst Sion fight,
And shall not we, when *Rome* this moneths fifth day
Did purpose we to them should be a prey,
Rejoyce being delivered from their Treason,
With thankfulnesse? 'tis but religious reason.

1	b	♃ sun.	♐	15	2	Fair and	
2	e	☽ apogeon		27	3	calm.	
3	f	♄ 8. 49 ♍	♑	9	4	Rain and	
4	g	♃ ☉ and ☽		21	5	warmth.	
5	a	Wonder Tr	♒	3	6	Wholesome	
6	b	♃ 13. 36 ♓		15	7	gales of fresh	
7	c	☽ with ☊		27	8	winde.	First quarter
8	d	☽ with ♃	♓	10	9	Fair and clear	7. day 16. mi-
9	e	♂ 15. 11 ♎		23	10	air.	nutes past 8. at
10	f	□ ♄ and ☿	♈	6	11	Cold windy	morn.
11	g	✶ ♄ and ♀		20	12	and frosty,	
12	a	25. sun. aft. Tr.	♉	5	13	snow like □	
13	b	♂ 11. 46 ♏		20	14	♃ and ☿ high	
14	c	☽ perigeon	♊	5	15	and boistrous	Full moon
15	d	△ ♃ and ♀		20	16	windes. Fair	14. day 26. m.
16	e	☌ ♂ and ☿	♋	5	17	and warm	past 7. at
17	f	☿ 20. 58 ♐		20	18	Windy and	morn.
18	g	♄ 9. 37 ♍	♌	5	19	cold season,	
19	a	26. sun. aft. Tr.		19	20	frosty and	
20	b	☽ with ♄	♍	2	21	much snow a	Last quarter
21	c	□ ☉ and ♄		16	22	bout this time,	20. day 55. m.
22	d	♃ 14. 28 ♓		29	23	and then very	past 11. at
23	e	♂ 24. 1 ♎	♎	11	24	great and tur-	night.
24	f	☽ with ♂		24	25	bulent.	
25	g	♀ 26. 49 ♏	♏	6	26		
26	a	27. sun. aft. Tr.		18	27	☐ ☉ and ♃	
27	b	☽ with ♀	♐	1	28	High windes,	New moon
28	c	☿ 6. 20 ♑		12	29	cloudie and	28 day 16. m.
29	d	Term ends		24	30	☽ apogeon.	past 10. at
30	e	♃ new ♃	♑	6	2	windy.	night.

December hath xxxj. dayes.

This is no time for action, elſe we ſhould
Hear worſe things done then willingly we would:
The ſeaſon's cold, we wiſh thoſe Councels may
Never finde warmth to hatch that would betray
Our liberties——I muſt my thoughts ſuſpend,
Time bids me haſt, the year is at an end.

1	f	☌ ♄ and ♀	♍	18	3	Cold froſts	
2	g	☽ ☌ ♂ and ☽		30	4	call for a good	
3	a	Advent ſund.	♎	12	5	fire, and be	
4	b	♄ 10. ☌ ☿		24	6	warm if you	
5	c	☽ with ♆	♓	6	7	can. Very cold	
6	d	□ ♄ and ♀		19	8	rain or ſnowy	
7	e	♆ 16. ☌ ☉ ♓	♈	2	9	weather.	
8	f	Converſ. Mar.		15	10	Cloudy and	First quarter
9	g	☌ ♂ and ☽		29	11	cold, and then	9. day 10. mi-
10	a	2. Advent.	♉	13	12	ſtormy and	nutes paſt
11	b	♂ ☍ 5. 20 ☿		21	13	windy air.	midnight.
12	c	☽ perigeon	♊	13	14	Moiſture, ſno.	
13	d	☌ ☿ 19 27 ♐		29	●	like, fair and	Full moon 13.
14	e	☌ ♆ and ☽	♋	14	16	calm, a very	day 45. min.
15	f	☿ 14. 3 ♍		28	17	milde time.	paſt 5. after
16	g	☌ ☿ and ☽	♌	13	18		noon.
17	a	3. Advent.		28	19	Snow or much	
18	b	✶ ☌ ♂ and ☿	♍	12	20	☌ ♄ and ♂	
19	c	☌ ♄ and ☿		25	21	rain & winds.	
20	d	☌ ☉ and ☿	♎	8	22	Cold froſty	Laſt quarter
21	e	Thomas Ap.		21	23	and windy,	20 day 27. m.
22	f	☽ with ♂	♏	3	24	☌ ☉ and ♄	paſt 2. after
23	g	☌ ♆ and ☽		15	25	cold ſnowy,	noon.
24	a	4. Advent.		27	26	and cold and	
25	b	Chriſt. Mat.	♐	9	27	ſlabby, ✶ ☉	
26	c	Stephen.		21	28	and ♂ cold	
27	d	John Evang.	♍	3	29	☌ ♀ and ☿	
28	e	Innocents		15	30	and ☽ apogeon	New moon
29	f	☌ ♄ and ♀		26	●	ſnowy or fri-	28. day 49. m.
30	g	✶ ☉ and ♆	♒	9	2	gid rain, ſn. &	paſt 7. after
31	a	5. Advent.		21	3	veh. guſts of w.	noon.

A PROGNOSTICATION

For the

Year of our Lord, 1654.

The Second after Biſſextile.

CONTAINING

A Brief Deſcription of the four Quarters of the Year.

The Calculation of four Eclipſes with the orientality and occidentality of the PLANETS.

And a general Survey of the world with the Geographical diviſion thereof, an account of other things neceſsary to be known.

Calculated to the Elevation of the Pole Arctick 52 degrees.

By John Smith, *Philomathematicus.*

Aſtra regunt homines quantum divina poteſtas---Sivit.

London, Printed by *E. Alſop*, for the Company of Stationers, 1654.

The Radices of the middle motion of the Planets, Januari, 1654. at noon, for the Latitude of 52 grad.

	S	G	M
Progressio primæ Stellæ arietis a vero Equinoctio verno	0	28	0
Longitudo media solis	9	21	7
Apogæum solis	3	06	37
Longitudo media Lunæ	6	29	23
Apogæum Lunæ	7	15	49
Nodus ascendens Lunæ	11	6	26
Longitudo media Saturni	4	16	53
Aphelion Saturni	8	27	11
Nodus ascendens Saturni	3	21	5
Longitudo media Jovis	11	0	1
Apogeum Jovis	6	8	48
Nodus ascendens Jovis	3	5	37
Longitudo media Martis	0	12	13
Aphelium Martis	5	00	4
Nodus ascendens Martis	1	7	22
Longitudo media Veneris	1	17	18
Nod ascendens Veneris	10	5	11
Aphelium Veneris	2	13	31
Longitudo media Mercurij	2	27	20
Aphelium Mercurij	8	14	20
Nodus ascendens Mercurij	1	13	49

Astra regunt homines quantum divina potestas
Sivit, et humanum sublevat inde genus
Scilicet a superum cursu volun ur & ima
Imaq; supernis consociata manent
Inclinenit homines ad fasq nefasq; sed illas
Non tamen impellant namq; viget ratio.

Of

Of the four Quarterly Revolutions.

THe Suns motion is either Diurnal or Periodical: by the former Days and Nights, Natural, Civil, and Artificial are described; and by the latter the Year is divided into its several parts, and therefore this, and not that, is to be the business of my discourse.

That space of time described or distributed by the Periodical motion of the Sun, is called a year, and that again is either *Annus Tropicus*, or *Annus Sydereus*.

The Tropical year is that space of time which bringeth about a four-fold change of seasons, and is therefore divided into four Quarters, Spring, Summer, Autumn, and Winter; and this Year is called *Annus tropicus*, because it is bounded (*intervallo τῶν τροπῶν ut Æquinoctiorum*) by that space betwixt the Tropicks and Æquinoctial points. And this year is otherwise called, *Annus temporalis*.

Annus Sydereus, the Sydereal year, is that space of time wherein the Sunne making his perambulation through the whole Zodiack, commeth to the same fixed star.

And both this Sydereal, and that Tropical year are again divided into an Equal and Unequal. The Equal Tropical year, being that which is measured by the Suns equal motion, circumacted from the middle Æquinox, and reducted to the same point, and it contains 365 days, 5 hours, 49 minutes, and 16 seconds; but the unequal Tropical year, is measured by the sun through the whole Zodiack, by his true compassed or apparent motion to the same point of the solstice or vernal Æquinox reverted; and this year is unequal, because of the unequal procession of the Æquinox, and the Suns *Proscaphæresis*, or Anomaly.

The equal Sydereal year is that wherein the sun de-

parted from any fixed ſtar, making his perambulation through the whole Zodiack by his ſimple equal motion, is revolved to the ſame ſtar; and this year contains 365 days, 6 hours, 9 minutes, 12 ſeconds; and the beginning of this year is conſtituted in the firſt ſtar of Aries. The unequal Sydereal year being that which deviates from this ſpace of time.

And thus much of the general diviſions of a year; I come now to ſpeak of that which concerns my preſent purpoſe, viz. the Tropical year, as it is divided into four ſeaſons, commonly called, Spring, Summer, Autumn, and Winter; of which Baſilius thus.

Vere ſinum Tellus aperit floreſque miniſtrat,
Temporis ſolis ager meſſes fert pinguis opimas,
Fœcundus Autumne lacus de vitibus imples,
Vis hiemis glacie currentes alligit undas.

And firſt of the Spring.

Æ*Quinoctium vernum*, the Spring quarter is the firſt part of the tropical year deſcribed by the ſuns motion from the firſt point of Aries, to the firſt point of Cancer, which time is called the ſpring ſome ſay, *a vivendo* others, *a veniendo*, but *Iſidorus* (moſt rationally) call it *ver a virendo*; becauſe then the earth is clothed with graſſe, and all things break forth into flouriſhing and greenneſs, this is called the childhood of the year, as the childhood of man is called his ſpring time, and of this gallant ſeaſon I ſhall obſerve theſe three things before I come to tell you the exact time of its initiation.

The Ancients (ſaith *Iſidorus* in Etimologice lib. 5. cha. 35.) diſtinguiſhed and divided this and the other quarters of the year into three other parts, the firſt they called *pars nova*, as the new ſpring, the new ſummer, new Autumn, & new winter; thus the new ſpring was *March*

ning

new ſummer was *June*, new Autumn *Sept.* and new winter *Dec.* The ſecond they called *pars adulta*, and this contained the ſecond moneth of every ſeaſon, ſo the ful grown ſpring was *April*, the ful grown ſummer was *July*, the full grown Autumn *Octob.* & the full grown winter *Jan.* The third they called *pars præcipis*, containing the third and laſt month of every ſeaſon, and thus, the falling ſpring was *May*, the falling ſummer *Aug.* the falling Autumn Novem, and the falling winter *Febr.*

2dly, Take we notice that the temperament and complexion of this quarter is temperately hot and moiſt, as will appear by theſe reaſons. 1 Becauſe it is moſt apt for the generation of things, for not onely the generations of living creatures are moſt frequent in the ſpring ſeaſon, but alſo all thoſe things whether plants or animals, that in the winter are as it were dead, are wont to revive and aſſume as it were a new life at this time, and now as it is moſt undeniable; that the ſpring is a ſeaſon moſt apt for generation, ſo it is as clear from hence that its natural temperament is hot and moiſt, becauſe theſe qualities are the principles of generation, and the principal natural conſervers of life, which conſiſteth not but in temperate heat and moiſture: But this is not all, for

2dly, Its temperament is hot and moiſt, becauſe it is that ſeaſon wherein moſt bloud is generated, as is clearly manifeſted by common experience, and the practice of Phyſitians, who upon this account adviſe men to be let blood at this time, as may be ſeen in the Commentaries of *Fnebſius* upon 9 Aphor. Sect. 3. And Hyppocrates alſo approoves this, and affirmeth Children to be moſt healthful in the ſpring, and that for this very reaſon, becauſe their warm and moiſt conſtitution anſwers to the temperament and complexion of the ſeaſon. Now the humours in bodies increaſing according to the qualities of the times and ſeaſons, it muſt neceſſarily be concluded, that that time in which the blood

(whose nature is hot and moist) is increased, must needs also be hot and moist: thus much of the second thing, the third follows.

3dly, Take we notice, that diseases are most frequent in the Spring time, because the humours which are collected and lie hid in the body by the cold of Winter, are excited and stirred up by the heat of the Spring, and afford plenty of matter to breed diseases, for the Spring, that most healthfull quarter, begets not diseases by it self, but the multitude of those evil humours which are collected in Winter, and excited in the Spring: and therefore other bodies, that are free from these evil humours, are most healthfull at this time. But it is to be observed, that those two parts of this quarter which (as I told you before) the ancients call *adulta* and *præcipis*, that is to say, April and May, are far more healthfull then March, by reason that the air is more purged from evil vapours, and the more exact temperament of heat with cold. That gallant man Hyppocrates, in Sect. 3. *aphorismorum*, calls the Spring quarter ὑγιεινοτατον καὶ ἥκιστα νοσῶδες, the most healthfull and least corrupted season. What the diseases are that infest those bodies that are ill constituted this Spring season, he recites, sect. 3. *aphor.* 20. and thither I refer the learned for satisfaction.

Whilest I pleaded for Hyppocrates in the second consideration about the Springs temperament, I forgot to reconcile my self to Galen, who says the Spring is not hot and moist, but temperate; but this discord will be easily composed, for hot and moist may be either by excess, or mediocrity, that excess is a stranger to this season but this mediocrity agrees well with it, and is no other then that temperate nature which Galen pleads for.

Thus the blood, which is the most temperate humor, is by Galen himself often called hot and moist, as may

be seen in Physitians, see *Exerc. Josephi Phavorini, Exerc.* 1. *cap.* 14. But a more large and prolixe handling of this question, you may see in *Baptistus Montanus*.

And thus far of the nature of the Spring quarter; now for the time of its initiation, and that is March 9, 19 hours 56 min. *P. M.* or more vulgarly March 10, 56 min past 7 of the clock in the morning, as appear by the calculation following.

	Longitude of Sol.				*Apogæum of Sol.*			
Time proposed.	S.	D.	M.	sec.	S.	D.	M.	sec.
Years 1601	9.	19.	58,	34.	3.	5.	43.	28.
Years 40	0.	00.	17.	57.			41.	5.
Years 13	11.	29	51.	03.			13.	21.
March	1.	28.	09.	11.				10.
Day 9		8.	52.	15.				2.
Hours 19			46,	49.				0.
Minutes 56			2.	18.				0.

Middle Long. Sol	11.	27.	58.	7.	3.	6.	38.	6.
Apogæum substr.	3.	6.	38.	6.	*Apogæum* Solis.			
Rests *Anomaly*	8.	21.	20.	1.				
Equation added	0.	2.	1,	53	d. m. sec.			
Suns true place.	0.	0.	0.	0.	in 0. 0. 0. of *Aries*			

This is the true middle time of the Suns entrance into the vernal Equinoctial sign Aries, from which if we substract 4 min. for the equation of Civil days, the apparent time of this vernal ingress will be March 9, 19 hours, 52 minutes *post meridiem*, at which time the heavens will be so posited as in the subsequent Scheam.

This is the true Scheam of the heavens at the ingress of the Spring quarter, which Astrologers are wont to make the foundation of their astrological predictions for the year following: But for my part *I* am unsatisfied about the truth of the time of these quarterly ingresses; for I find it to differ very much, as appears by the several calculations of Argol, Origanus, Eichstadius, Licho, Brahe, and Copernicus, wherein they are some of them short of the time *I* have set, an hour or two, and others as far beyond it: I will not say this *author* wants a bridle, and the other a spur, and so conclude upon the middlemost for that reason a late writer gives, that in *media consistit virtus*; but wanting a good foundation, and being unsatisfied with those vulgar Rules wherewith astrologers are wont to build their superstructure, I shall forbear to trouble you with uncertain predictions of the state of the year, supposing that what I have already said of this quarter is enough to

to satisfie them that will be sober as well as wise.

Of Summer.

Æ*stas*, or the Summer quarter, is that second part of the Tropical year, described by the suns motion from the beginning of Cancer to the beginning of *Libra*, and it is is called Æstas, *ab Æstu*, that is *calore*, from its exceeding heat; this part of the year they use to call *Juventus anni*, the youthfull season of the year.

The natural temperament and complexion of this quarter is hot and dry, by reason of the Suns more vertical position over us, his rays being more perpendicular, and so far more powerfull and efficacious.

Besides the former distinction mentioned in the spring quarter, Hevrnius tels us, in Com. sup. 3 sect. aphor. 1. that this quarter was divided also into three other parts; the first from the arising of the *vergiliæ* or Πλειάδες vulgarly called the seven stars, to the summer solstice; the second from that solstice to the rising of the *Caniculæ*, a sign or constellation so called; and the third called *Opora*, from the rising of the *caniculæ* unto the rising of *arcturus*, a star so called, by the tail of *ursa major*, or the great Bear.

This season is obnoxious to acute and cholerick diseases, by reason of the heat generating much vehement choler; the particular diseases of this part of the year, are recited by Hyppocrates sect. 3, aphor. 21. And the time of its ingress, or the suns entrance into Cancer, is this year,

June 10. { 22 ho. 59 min. 11 sec. *tempus medium*.
{ 22 ho. 58 min. 45 sec. *tempus apparens*.

or vulgarly, June 11, 59 min. past 10 of the clock before noon. Thus much of Summer.

Of Autumn.

Autumn, or the Harvest quarter is the third part of the Tropical year, described by the suns motion from the first point of Libra, to the beginning of Capricorn

pricotne; and it initiates this yeare.

September 12 { 13 ho. 53 min. 15 sec. *tempus medium.*
13 ho 57 min 19 sec. *tempus apparens.*

This season is called Autumn (a cording to Festus) *ab augenda* from increasing, because then the wealth of some men is much increased and augmented by the fruits of the earth in a plentifull harvest; to which Claudian in *rapta Proserpinæ* seems to have respect, in these verses.

Hæc tibi sacra datur fortuna tuumq; tenebis,
Autumnum & fulvis semper ditabere pomis.

Its temperament is cold and dry, by reason of the suns declining by little and little from our vertex: according to the ancients it was wont to begin at the rising of *arcturus*, and end at the setting of the *vergiliæ*, or seven stars.

Of this part of the year Hyppocrates in the place but now cited, speaks, and tels us, Εν φθινοπώρῳ ὀξύτατοι αὐ νοῦσοι καὶ θανάτῳ δέσταται τὸ ἐπιπαν: that is, In Autumn happen almost the most acute and corrupt diseases, of which saying Physitians give these five reasons.

1. Because by reason of the often changes of heat and cold, the season very unequal, whence many evil humours are stirred up. Hence the Poet Ovid

Cum modo frigoribus premimur modo solvimur Æsta.
Tempore non certo, corpora longuor habet.

2. Because the hot season that precedes doth as it were settle the humors.

3. Because by the force of heat, the powers of nature are weakened.

4. Because the vitious humors by reason of the ambient cold, which morning and evening increaseth, begin at length to strike into the inward parts of the body.

5. Because at this time, by reason of the plenty of almost all kind of fruits, a multitude of corrupt humors are

are procreated. For the particular diseases of this season, see Hyppocrates sect. 3. aphor. 22.

Of winter

Hyems, or Winter is the fourth part of the Tropical year, described from the suns motion from the first point of Capricorn to the beginning of *Aries*, and it is called Hyems παρὰ τὸ ὕειν, to rain, because this season is of a cold and moist temperament and complexion. It enters this present year.

	h	m	ll	
December 11	1	25	14	*Tempus medium*
	1	25	40	*Tempus apparens*

The ancients, as Hevrnius reports, distinguished this Winter quarter into two parts whereof they accounted the first from the setting of the Virgiliæ, Pleiades, or seven stars, to the Winter solstice: and the latter from the Winter solstice to the vernal Æquinox.

But others number three parts of this quarter and call the first *pars semens Græce* σπορὰν, the seed time, because then men are wont to sow: the second they call *pars brumalis*, because then the cold of winter most increaseth, and the days are very short, (hence Isidorus thinks it is called *bruma per syncopea, quasi* βραχείαν ἡμέραν; and Macrobius βραχὺ ἦμαρ, although Scaliger deduceth it *a brumo Bacchо*, because the feast of Bacchus was celebrated at this time by the Heathen.) The third part of this quarter they called φυτεία, the planting time, because winter going out, trees are wont to be planted. As for those diseases that are wont to infest mens bodies at this time, they are recited by *Hyppocrates* sect. 3, aphor. 23.

And thus much of those four known seasons of the year, as they are described by the suns constant motion, which according to the measure of the suns heat, which also is various from the various accesse, recesse, and positure to this or that part of the earth, renders these seasons

ſeaſons various alſo, of which diverſity we have no room here to ſpeak, but muſt break off. *I* come to the eclipſes that will be within and without our *Horizon* this year.

Of Eclipſes this year.

THoſe great Luminaries of the world the Sun and Moon will four times this year be eclipſed; for the ſuns reſplendant face ſhal be twice hidden in part from the inhabitants of the earth, by the interpoſition of the moon, and as many times ſhall the moon be deprived of her borrowed light, for the earths dark ſhadow interpoſing between her and the ſun, ſhall cover her face with darkneſs and obſcurity.

The firſt is a non-viſible eclipſe of the ſun, happning Febr. 7, about 6 a clock in the morning, which becauſe it will be celebrated before the ſuns approach into our Hemiſphear, cannot be expected to be conſpicuous to us, unleſs the earth were a body ſo tranſparent that it might be penetrated by our feeble eys, and therefore we that live in Great Brittain muſt not look to behold it, although to thoſe that ſail in the ſouth Indian ſea, or inhabite the Lucach Beach, and Maleter Kingdoms, the Iſlands des Romeros, and the provinces of *India*, it will be viſible and conſpicuous.

The ſecond is an eclipſe of the moon, which (*poſitis omnibus requiſitis*) may be ſeen of all thoſe that inhabit in *England* ſome part of it, if they pleaſe to behold it; it happens Feb. 21.

	ho.	min.	
Its Beginning is at	5	6	
The greateſt obſcuration is at	6	15	
The End is at	7	23	in the morn.
The total duration	2	17	
The digits eclipſed	4	2	

The moon ſetting before the eclipſe is ended, we ſhall not ſee it all the time of its continuance, but ſome part onely.

The

The third eclipse is an obscuration of the sun happening Aug. 2. and if the air be clear, it will be conspicuous in our Brittanian Hemisphear.

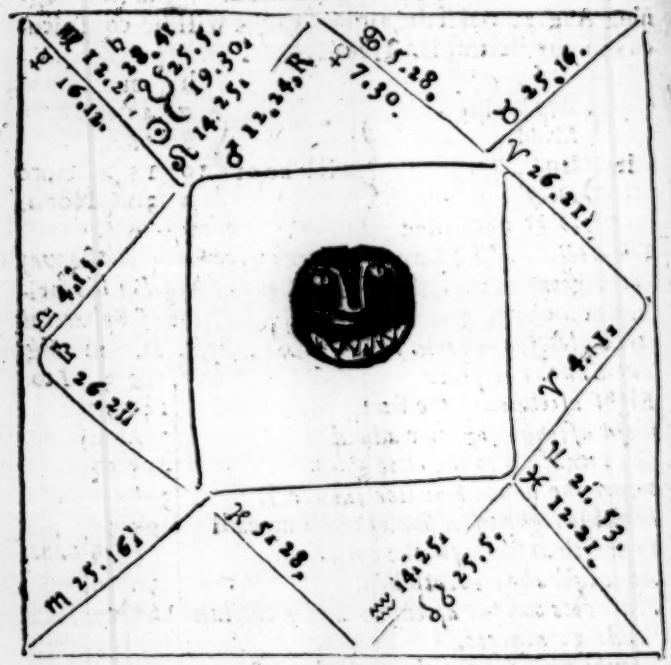
		h	m	
Its	Beginning	7	45	Before Noon.
	Middle	8	56	
	End	10	15	
	Duration	2	30	
	Digits eclipsed	10	0	

The erection of a figure of heavens according to the way of Regiomantanus, by the directions of Argolin his primum mobile, grounded upon the doctrine of Sphærical triangles, for the mid time of this eclipse.

	D.	m.	sig.
The Suns true place	19	30	*Leo*
Right ascension of the Sun,	141	57	
Right ascension of time added	3	4	0
The total sum to the time given	455	57	
Hence the whole Equator subtracti.	360	0	
Remains right ascension of medium cæli	95	57	
To which answers for the cusp thereof	5	28	*Cane.*
Added for the eleventh house	30	0	
Makes its oblique ascension under the latitude 33 degrees.	125	57	
To which agrees for the cusp thereof	14	25	*Leo.*
Added for the 12 house	30	0	
Makes its oblique ascension sublatic.48	155	57	
To which answers for its cusp	12	21	*Virg.*
Added for the Horoscope	30	0	
Oblique ascension thereof, Elevat. pol. 52.	185	57	
To which for the cusp of the ascendant agrees	4	11	*Libr.*
Added for the second house	30	0	
Its oblique ascension sub latitudine 48	215	57	
To which answers for the cusp	26	21	*Libr.*
Added for the third house	30	0	
Its oblique ascension sub lat.33	245	57	
To which answers for the cusp	25	16	*Scor.*

The

Behold the Scheam!



The preſent age (it cannot be denied) hath had manifold experience of the effects of eclipſes, and it is very certain they always portend ſomething; yet becauſe the beſt calculations have often failed ſomething of ſhewing the exact time of theſe Phænomenaes, I think it more ſafety, and better wildome to forbear my judgment thereon, till I have obſerved the exact moment thereof, and herein may very well be excuſed, ſince by the decrees of aſtrologers themſelves its effects will not manifeſt themſelves until next year: Yet thus much in the mean time, I beleeve that this famous eclipſe portends very much to the City Rome, and will ere the time

time of its emersion darken the *locum Hylegialem* thereof, and turn its River into blood. *Sic pereant omnes inimici tui Jehovah.*

The fourth and last Eclipse is of the Moon, and it happens upon the 17 of *Aug.* in the evening it may be seen in England.

		h	m	ll
Its Beginning	will be	9	42	26
Its Middle	will be	10	37	22
Its End	will be	11	32	18
Its Duration	will be	1	49	52
Digits eclipsed	will be	2	36	37

Those inhabitants of the world, whose remove from London Eastward is 1 h. 23 m. 38 *ll*, shal behold the middle of this Eclipse in their meridian, as in Hungaria, Sicilia, the extremity of Italy, Poland, and such places as are subjacent to the Longitude of 41 degrees, 39 minutes, 30 seconds.

A Table for the Moons coming south; for finding out the hour of the night, and time of full sea.

The use of this table.

First find in the 5 column or diary for any day you desire the age of the moon, & having found it enter this table in the first column with it, and in the second column you have the time of her coming due south.

Example.

June 22. the moons age in the Kalendar is 18 days. I enter this table in the first column with 18, and right against it in the 2 column I find 2. 24 which tells me the moon is south that day at 24 minutes past 2 in the morning

The Moons Age.	*Moons coming* Ho.	Mi.
1	16	0 48
2	17	1 36
3	18	2 24
4	19	3 12
5	20	4 0
6	21	4 48
7	22	5 36
8	23	6 24
9	24	7 12
10	5	8 0
11	26	8 48
12	27	9 36
13	28	10 24
14	29	11 12
15	30	12 0

A Table for the tides

	h.	m.
Quinbor. Southamp. Portſm. Welling.	0	0
Rocheſter, Malden, Aberd. Redban.	0	45
Graveſend, Romney, Tenet.	1	30
London, Tinmouth, Hartlepool, Amſterdam.	3	0
Barwick, Oſtend, Scarborough, Fluſhing.	3	45
Frith, Leith Narb. Dunbar, Scilly.	4	30
Falmouth Foy, Humber, Newcaſtle.	5	15
Lin, Antwerp, Plimouth, Hull.	6	0
Briſtol, Lanien, Foulneſs.	6	45
Milford, Bridge-water, North-war.	7	30
Portland, Peterport, Northflew, Hague.	8	15
Orf. Need. Deep, Dun, Lenow, Cask.	8	45
Dort, Yarmorth, Harwich, Dublin. Bulloin.	10	30
Callis, Rye, Winchelſey, Calſhot.	11	15

The uſe by Example.

Deſiring to know the time of full ſea at Hull April 20, I find the moons age to be 14 days, and her comming ſouth, by the former directions, to be at 12 min. paſt 11 at night; to this I add 6 hou. which I find to be againſt Hull in this Table, and it gives me 5 a clock and 12 min. for the time of full ſea at Hull.

How to find the hour of the Night by Moon-ſhine.

Having found the time of the moons ſouthing, obſerve how many hou. and min. the ſhadow wants of the line of 12. and then ſubſtract thoſe hou. and min. from the time of the moons comming south and the remainder is hour of the night; but if the ſhadow be paſt the line of 12, add thoſe hours and minutes of the moons ſouthing to the hours and minutes which the ſhadow gives you upon the Dial, and the product give you the hour of Night.

The Orientality and Occidentality of the 5 Planets this year.

Saturn is oriental until February 2, and then he becomes

comes occidental until August 16, when he again is oriental till the years end.

Jupiter is occidental till February 8th, at which time he becomes oriental, and continues so all the year.

Mars is occidental all the first part of the year till July 11, and then he is oriental all the rest of this year.

Venus is oriental till April 16, and then she is occidental and our bright evening star, all the rest of the year.

Mercury is occidental till Jan. 5, and then he is oriental until March 16, and then occidental until May 2, when he becomes oriental until June 28, and then occidental till *Sept* 4 and again oriental till *Octo.* 20. when he is occidental until *December* 19 and then he becomes oriental so continuing the rest of this year.

A civil day contains,

1 a day whose parts are

- *Diluculum*, the break of day.
- *Mane*, the full morning.
- *Ad meridiem*, the forenoon.
- *Meridiei quasi medi dies*, mid-day.
- *Morum dies* perfect day, noon.
- *De meridie*, afternoon.
- *Solis occasus*, the sun setting.

2 The night whose parts are

- *Crepusculum*, the dusk of evening.
- *Prima fax*, candle light.
- *Vesper*, the night.
- *Concubium*, bed time.
- *Nox intempesta*, the first sleep.
- *Ad mediam noctem*, toward midnight.
- *Media nox*, midnight.
- *De media Nocte*, a little after midnight.
- *Gallicinium*, the Cock crowing.
- *Conticinium*, all the time after Cock crowing untill break of day.

A Geographical description of the world, and the parts thereof.

THe world called by the Greeks KOΣMOΣ, and in Latin *Mundus*, is Geographically divided into four parts Europe, Asia, Affrica, and America.

Of Europe.

Europe is bounded on the North with the Northern Ocean, and on the South with the mediterranean sea, on the east with the floud Tanais, and on the west with the western ocean, and containeth these Provinces.

Germany Spain, Swedeland, Hungaria, Italy, Denmark, Muscovia, Selavonia, France, Norway, Polonia, Grecia.

The principal Islands are.

England, Scotland, Ireland, Candia, Sardigna, Sicilia Corsica, Nigropont.

The greatest length of Europe, is 3000 miles, and the greatest breadth thereof 900.

Of Asia.

Asia is bounded on the North with the North Ocean on the South with the red sea and the Gulfs adjoining, on the East with the East India ocean, and on the west with the floud Tanais, its regions are these.

Anatolia, Armenia, Assyria, Persia, Syria, Arabia, Mesopotamia, Parthia, Palestina, Media, Chaldea, Tartaria.

China and India with the Islands thereof.

Five things make this country famous 1. Man was there created. 2. Christ was born there. 3. He wrought miracles, lived and died there. 4. Those famous and great Monarchies of the Babylonians, Assyrians, Medes, and Persians were here seated. 5. Thence the empty parts of the world were filled with inhabitants.

Of

Of Affrica.

Affrica is bounded on the east with the red sea, on the west with the Atlantique ocean, on the South with the Southern ocean, and on the North with the Mediterranean sea.

The Provinces are.

Egypt, Barbaria, Æthiopia, Nubia, Abasmies, and Alonomotopia.

The Islands these.

Madagascar or St. Lawrence, St. Thomas, Insula de Cape verde, Insula de Canaria, Insula de Madera.

Of America.

America, the fourth part of the world was altogether unknown to the ancients, but by latter observations it is found to be bounded on the East with the Atlantique ocean, on the west with the west *Indian* ocean, on the North with the Northern ocean, and on the South with the Magellanick sea.

It consists of two parts, Mexicana, Peruana.

Provinces of Mexicana.

Nova Hispania, Terra florida, Nova Anglia, California, Norumbega, Nova Francia, Estotillant.

Provinces of Peruana.

Brasilia, Tisnada, Caribana, Catagena, Peru, Charas, Chila, Chica, Patagonos.

Islands of Mexicana.

Greenland, Iseland, Frisland.

Islands of Peruana.

Hispaniola Cuba, cum multis aliis in India occid. Insula Margarita Molucque, Insula Remores, Java major, Java minor, Insula Salamonis, and all the other in India Orientali.

A Table of Suns setting for every other day in the year.

Da.	Janu.	Febru.	March.	April.	May.	June.
1	3 57	4 47	5 44	6 46	7 40	8 13
3	3 59	4 52	5 48	6 50	7 43	8 14
5	4 1	4 54	5 52	6 54	7 46	8 14
7	4 2	4 58	5 56	6 58	7 49	8 15
9	4 5	5 2	6 0	7 2	7 52	8 15
11	4 7	5 6	6 4	7 6	7 54	8 15
13	4 10	5 10	6 8	7 9	7 57	8 15
15	4 12	5 14	6 12	7 13	7 59	8 15
17	4 15	5 18	6 16	7 16	8 2	8 14
19	4 18	5 22	6 20	7 20	8 4	8 14
21	4 22	5 26	6 24	7 24	8 6	8 13
23	4 24	5 30	6 25	7 26	8 8	8 12
25	4 28	5 34	6 32	7 31	8 9	8 11
27	4 35	5 38	6 36	7 34	8 11	8 9
29	4 39	5 42	6 40	7 37	8 12	8 7

Da.	July.	August.	Septem.	Octob.	Novem.	Dec.
1	8 4	7 20	6 20	5 22	4 24	3 48
3	8 2	7 16	6 18	5 18	4 21	3 47
5	8 0	7 13	6 14	5 14	4 17	3 45
7	7 58	7 9	6 10	5 10	4 5	3 45
9	7 56	7 6	6 6	5 6	4 12	3 45
11	7 54	7 2	6 2	5 2	4 9	3 45
13	7 52	6 59	5 58	4 59	4 6	3 45
15	7 48	6 55	5 54	4 50	4 3	3 46
17	7 44	6 52	5 50	4 51	4 1	3 46
19	7 42	6 48	5 46	4 47	3 58	3 48
21	7 38	6 44	5 42	4 43	3 56	3 49
23	7 36	6 40	5 38	4 39	3 54	3 51
25	7 34	6 36	5 34	4 35	3 52	3 53
27	7 31	6 32	5 30	4 31	3 50	3 55
29	7 26	6 28	5 26	4 28	3 49	3 57

The

The use of this Table for the suns setting.

OF the suns periodical motion we spake before; now it concerns us to speak of his diurnal motion; for this it is that distinguisheth the year into days, and a day is the time described thereby, viz. *Diurno motu solis*. Now the sun accomplisheth this motion either onely in the diurnal arch, or in the whole circle. Hence a day is either Natural, or Artificial.

A day natural, called by the Greeks νυχθήμερον, that is, a night and a day, is that space of time wherein the sun runs his whole diurnal circle, from the East by the West to the East again; and it contains always 24 hours by some authors called *dies civilis*, of which before, and after. But an artificial day is that part of time which is opposed to the night, and it is that space of time wherein the sun running his diurnal arch, produceth a day, which is from his rising to his setting; both which, with the length of the day, may be by the precedent table be thus found.

Enter the first column with the day of the moneth, and in the other columns under the moneth proposed, you may have your desire: and if you look for the suns setting on any intermediate day see the increase or decrease of two days, and make substraction of half the increase or decrease, as occasion serves, and the time of sun setting will emerge; which time substracted from 12 hours, gives you the true time of sun rising: For,

So many minutes as the sun setteth after 8,7,6,5,4,3:
So many minutes he riseth before 4 5,6,7,8,9.

The artificial day is equal or unequal with the night: and to know when it is equal, when unequal, you may double the hou. & min. of sun setting, & it gives you the length of the day; and double the ho. & mi. of sun rising, you have the length of the night, either of which known you need not be told, whether they are equal or not.

Of

Of the Equation of Natural Days.

AS the artificial, so the natural day is both equal and inequal. The equal are the mean days, consisting of one whole Revolution of the Æquator, and an additament of so much time as is answerable to the mean motion of the Sun in one day, that is,

59 minutes, 8 seconds, 19 thirds, 45 fourths.

The inequal are the true or apparent days, which consist of so much time as the Revolution of the Æquator is made in, with an additament of so much time as agrees to the true motion of the Sun in one day.

The inequality therefore of these days ariseth from this inequal additament, and that for these two causes.

1. The inequality of the Suns motion in the Ecliptick; for the Sun being moved excentrically, it happens that in equal spaces of time he describes inequal arches in the Ecliptick, and therefore it must needs follow, that the ascensions of the Æquator, or additaments agreeing thereto must needs be unequal also.

2. The obliquity of the Zodiack, which causeth an inequality or difference both in a right and oblique Sphear, betwixt the right ascensions of the Æquator and Zodiack.

Hence the difference between an apparent, and a mean or equal day is called the Æquation of days, because by this Æquation the natural or mean days are converted into the true or apparent.

As a demonstration of the first reason may be urged, that experience we have of the Sun, who runs through the 6 Northern signs in 186 days and about 6 hours, when he marches through the 6 Southern signs in less time, viz. 178 days and 22 hours. But these things because they are not of common use, I forbear further to enlarge.

The

The proportion of the Bodies of the Planets, according to Argol.

The Sun is greater then
- Saturn 9 times.
- Jupiter 14 times.
- Mars 2535 times.
- Venus 1270 times.
- Mercury 3705 times.
- Luna [illegible]000 times
- The Earth 196 times.

Saturn is greater then
- Jupiter half a time.
- Mars 286 times.
- Venus 152 times.
- Mercury 418 times.
- The Moon 1122 times.
- The Earth 121 times.

Jupiter is greater then
- Mars 182 times.
- Venus 84 times.
- Mercury 166 times.
- The Moon 714 times.
- The Earth 12 times.

Venus is twice as big as Mars, and thrice as big as Mercury.

Mars containeth Mercury once and an half.

The Moon is greater ther
- Mars 13 times.
- Venus 6 times.
- Mercury 19 times.

Hæc incredibilia videntur tantum iis qui Demonstrationibus mathematicis non assueverunt.

The

The Dimenſions of England, and of the adjacent Iſlands.

England is in	Length	389 miles.
	Breadth	279 miles.
	Compaſs	1532 miles.
Ireland is in	Length	303 miles.
	Breadth	213 miles.
	Compaſs	948 miles.
Iſle of Man is in	Length	28 miles.
	Breadth	18 miles.
	Compaſs	91 miles.
Angleſey is in	Length	21 miles.
	Breadth	18 miles.
	Compaſs	85 miles.

Reader, we all ſometimes tranſgreſſe,
Though ſome do more, and others leſſe;
Thy ſelf ſometimes doſt ſtep awry,
Sometimes the Printer, ſometimes I:
Then let's not carp, but learn to mend.
Mean time to this Ile put

An END.